

Firmware Update Procedures

PTR-15/PTR-15T

This document provides procedures for updating the PTR-15 4K Robotic Pan Tilt Head/ PTR-15T 4K HDBaseT Robotic Pan Tilt Head.

Updating the PTR-15 & PTR-15T Pan Tilt Head Firmware

What items you should prepare before updating the firmware(V0.73)

- The latest PTR-15/PTR-15T firmware update zip file x1.
The latest firmware zip file can be downloaded from the PTR-15 or PTR-15T product page of the Datavideo official website
PTR-15: <https://www.datavideo.com/product/PTR-15>
PTR-15T: <https://www.datavideo.com/product/PTR-15T>
After the downloaded firmware zip file is unzipped, you can see two firmware files including “pr15mcpu” and “pr15mctl”.
- PTR-15 or PTR-15T x 1
- 12V power adapter x 1
- Laptop or PC x 1
- USB Flash Drive x 1

This document describes how to perform firmware update on a **Windows** computer.

2.3 System Connection Diagram

PTR-15



PTR-15T



Checking the Firmware Version

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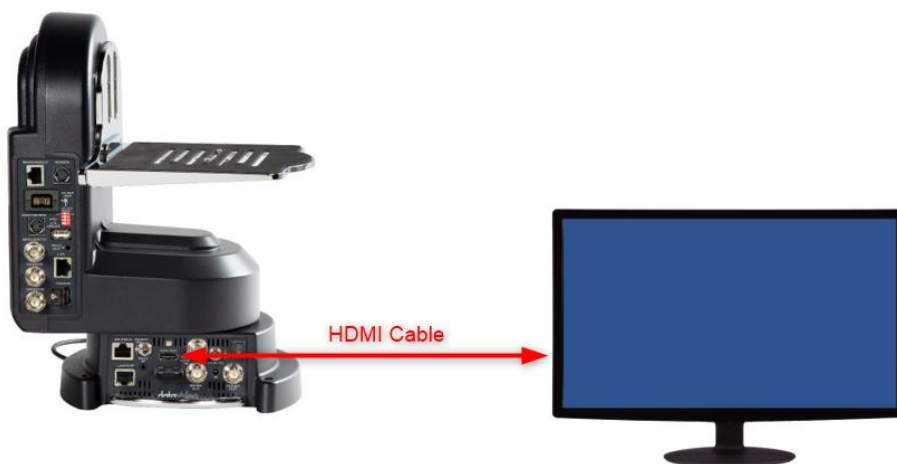
2.4 Checking the Firmware Version

2.4.1. Please connect a DC 12V power adapter.

Please connect a DC 12V power adapter to the PTR-15 or PTR-15T.

2.4.2 Please connect your PTR-15 or PTR-15T to an external monitor.


Please use an HDMI cable to connect from the HDMI OUT interface which is located on the rear panel of the PTR-15 or the PTR-15T to the HDMI interface of your external monitor.



2.4.3 Please turn on the power of your PTR-15T or PTR-15T.


After the HDMI cable is connected, please turn on the power of your external monitor and your PTR-15 or PTR-15T.


2.4.4 Please press the “MENU” button on the remote controller of your PTR-15or PTR-15T.

Please press the “MENU” button  from the remote controller of your PTR-15 or PTR-15T, and then the OSD menu of the PTR-15 or the PTR-15T will be shown on your external display.

[MAIN MANU] ↵
1: SET CAMERA ↵
2: SET MOTOR ↵
3: MEMORY ↵
4: VIDEO MODE ↵
5: REMOTE CONTROL ↵
6: SYSTEM ↵
7: RESET Pan/Tilt ↵
8: ESCAPE ↵

2.4.4 Please select the “6: SYSTEM” from the PTR-15/PTR-15T OSD Menu.

Please press the down-arrow key  of your remote controller to select the “6:SYSTEM” option.

After that, please press the “ENTER” button .


[MAIN MANU] ↵
1: SET CAMERA ↵
2: SET MOTOR ↵
3: MEMORY ↵
4: VIDEO MODE ↵
5: REMOTE CONTROL ↵
6: SYSTEM ↵
7: RESET Pan/Tilt ↵
8: ESCAPE ↵


2.4.5 You can see the “SYSTEM” OSD Menu.

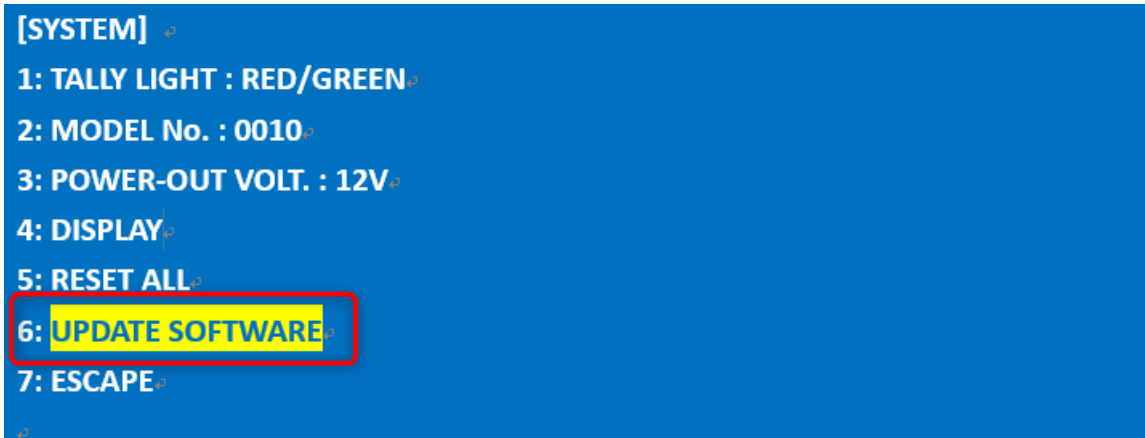
After pressing the “ENTER” button, you can see the “SYSTEM” OSD menu which is shown in the following diagram.

[SYSTEM] ↵
1: TALLY LIGHT : RED/GREEN ↵
2: MODEL No. : 0010 ↵
3: POWER-OUT VOLT. : 12V ↵
4: DISPLAY ↵
5: RESET ALL ↵
6: UPDATE SOFTWARE ↵
7: ESCAPE ↵

2.4.6 Please press the down-arrow key of the remote controller.

Please press the down-arrow key  of the remote controller to select the “6: UPDATE

SOFTWARE” option. After that, please press the “ENTER” button  from the remote controller.



2.4.7 After the “ENTER” button is pressed, you can see the “UPDATE SOFTWARE” OSD menu.

After the “ENTER” button is pressed, you can see the “UPDATE SOFTWARE” OSD Menu which is shown in the following diagram. You can see the current firmware version from “2: MB CPU:” and “3: MCTL CPU:”. From the example which is shown in the following diagram, you can see that the MB CPU version is “V1.24” and the MCTL CPU version is “V0.63”.



3. Update

3.1 Updating the Software

3.1.1. Please make sure that the 12V DC power cable is connected.

Please make sure that the 12V DC power cable is connected to the PTR-15 or the PTR-15T.

3.1.2. Please make sure that the latest downloaded firmware file is unzipped and saved.

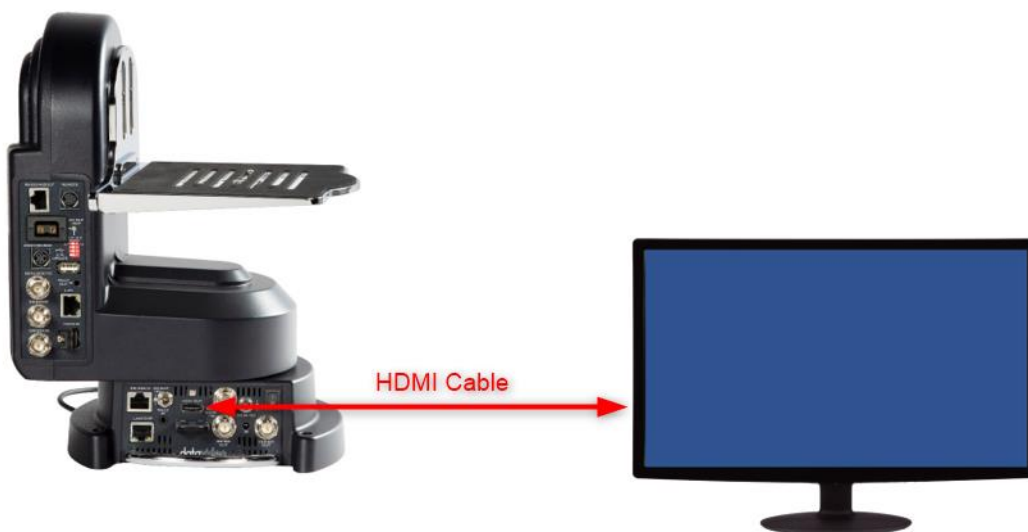
Please make sure that the latest downloaded firmware is unzipped. Moreover, please make sure the unzipped firmware files “**pr15mcpu.bin**” and “**pr15mctl**” are saved in the root directory of your USB flash drive.

3.1.3. Please insert your USB flash drive with the firmware files into the F/W UPGRADE interface

Please insert your USB flash drive with the latest firmware files into the F/W UPGRADE interface which is located on the rear panel of the PTR-15 or the PTR-15T.

3.1.4. Please connect an HDMI cable from your PTR-15 or PTR-15T to your external monitor.


Please connect an HDMI cable from the HDMI OUT interface of your PTR-15 or PTR-15T to the HDMI interface of your external monitor.



3.1.5. Please turn on the power.

Please turn on the power of your PTR-15 or PTR-15T and your external monitor.


3.1.6. Please press the “MENU” button from your PTR-15/PTR-15T remote controller.


Please press the “MENU” button  from your PTR-15/PTR-15T remote controller to open the PTR-15/PTR-15T OSD menu.




[MAIN MANU] ◁
1: SET CAMERA ◁
2: SET MOTOR ◁
3: MEMORY ◁
4: VIDEO MODE ◁
5: REMOTE CONTROL ◁
6: SYSTEM ◁
7: RESET Pan/Tilt ◁
8: ESCAPE ◁

3.1.7. Please select the “6: SYSTEM” from the PTR-15/PTR-15T OSD Menu.


Please press the down-arrow key  of your remote controller to select the “6:SYSTEM” option.

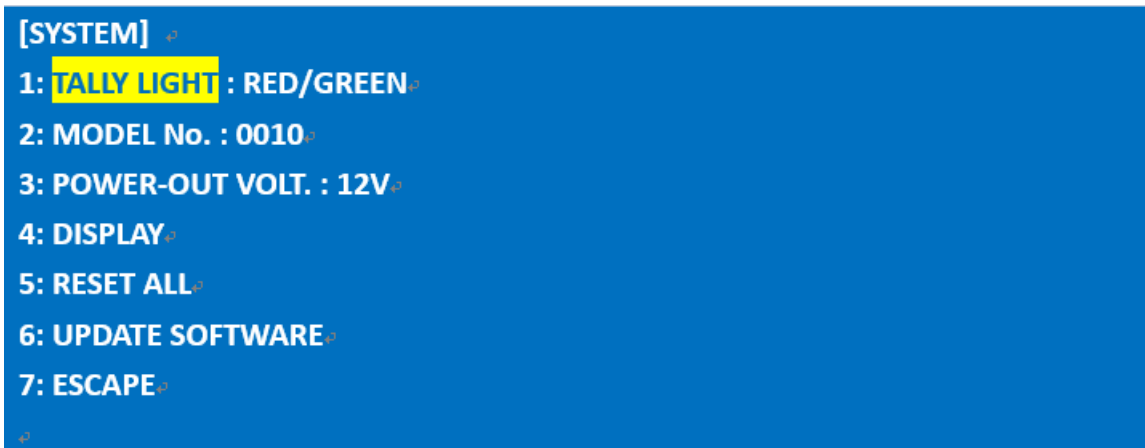
After that, please press the “ENTER” button .




[MAIN MANU] ◁
1: SET CAMERA ◁
2: SET MOTOR ◁
3: MEMORY ◁
4: VIDEO MODE ◁
5: REMOTE CONTROL ◁
6: SYSTEM ◁
7: RESET Pan/Tilt ◁
8: ESCAPE ◁


3.1.8. You can see the “SYSTEM” OSD Menu.

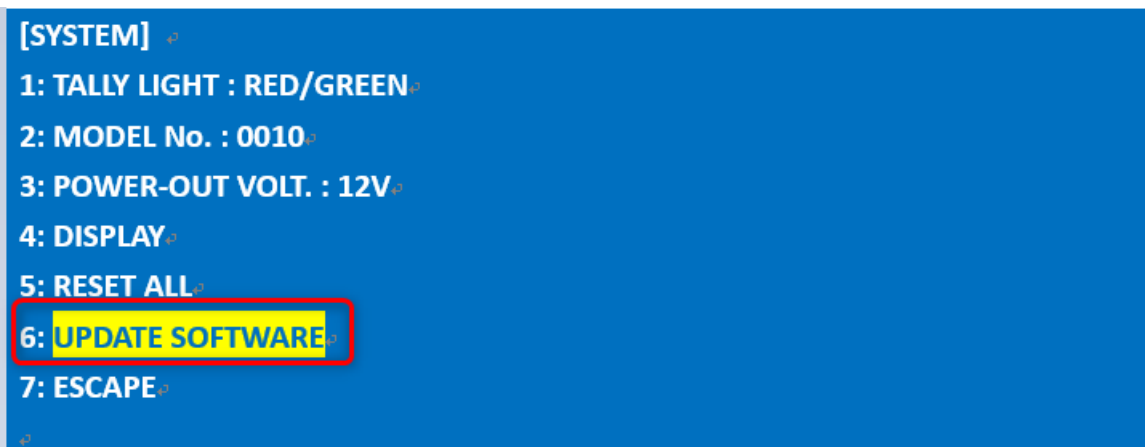
After pressing the “ENTER” button , you can see the “SYSTEM” OSD menu which is shown in the following diagram.




3.1.9 Please press the down-arrow key of the remote controller.

Please press the down-arrow key  of the remote controller to select the “6: UPDATE

SOFTWARE” option. After that, please press the “ENTER” button  from the remote controller.




3.1.10 After the “ENTER” button is pressed, you can see the “UPDATE SOFTWARE” OSD menu.

After the “ENTER” button  is pressed, you can see the “UPDATE SOFTWARE” OSD Menu which is shown in the following diagram.




3.1.11 Please press the down-arrow key from the remote controller.

Please press the down-arrow key  from the remote controller to select the “4: UPDATE ALL” option.




3.1.12 Please press the “ENTER” button.

After the “UPDATE ALL” option is selected, please press the “ENTER” button  from the remote controller and then you will see the screen which is shown in the following diagram.




3.1.13 Please press the up-arrow button from the remote controller.

Please press the up-arrow button  from the remote controller and then the “4: UPDATE ALL: NO” will become “4: UPDATE ALL: YES” which is shown in the following diagram.



3.1.14 Please press the “ENTER” button from the remote controller.

Please press the “ENTER” button  from the remote controller and then the firmware update procedure for the PTR-15or PTR-15T will be started automatically.

3.1.15. Please wait for about 5 minutes.

After the firmware update procedure is started automatically, please wait for about 5 minutes.

3.1.16. Please wait until the messages “Updated MCTL CPU=>OK” and “MCTL ready for re-start” are displayed.

Please wait until the messages “Updated MCTL CPU=>OK” and “MCTL ready for re-start” are displayed which is shown in the following diagram.

```
Open MCTL CPU flash OK.
Erass   CTL CPU ..
E_BLK-69
Erase-OK.

W2040K
Write-OK
Pdated MCTL CPU=> OK
MCTL ready for re-start.
```

3.1.17. Please wait until the message “Motor CTL FW: V xx.xx H2” & “MB CPU FW: PTR15MA_Vxx.xxc Updated” are shown on the screen.

Please wait until the message “Motor CTL FW: V xx.xx H2” & “MB CPU FW: PTR15MA_Vxx.xxc Updated” are shown on the screen. After that, please turn **OFF** and then turn **ON** the power of your PTR-15 or PTR-15T. After the PTR-15 or PTR-15T is rebooted successfully, the latest firmware is updated successfully.

```
Motor CTL FW: Vxx.xx H2
MB CPU FW: PTR15MA_Vxx.xxc
Updated.
```

3.2 Check the Updated firmware version

3.2.1. After the firmware update is done, you can check the latest firmware version.

After the firmware update is done, you can check the latest firmware version according to the steps in

“2.4 Checking the Software Version”.